



*we are where you are.*



**USF REFORM:**  
**THE CONNECT AMERICA FUND**  
**and**  
**THE MOBILITY FUND**

# Guiding Universal Service Principles for the Coming Decade



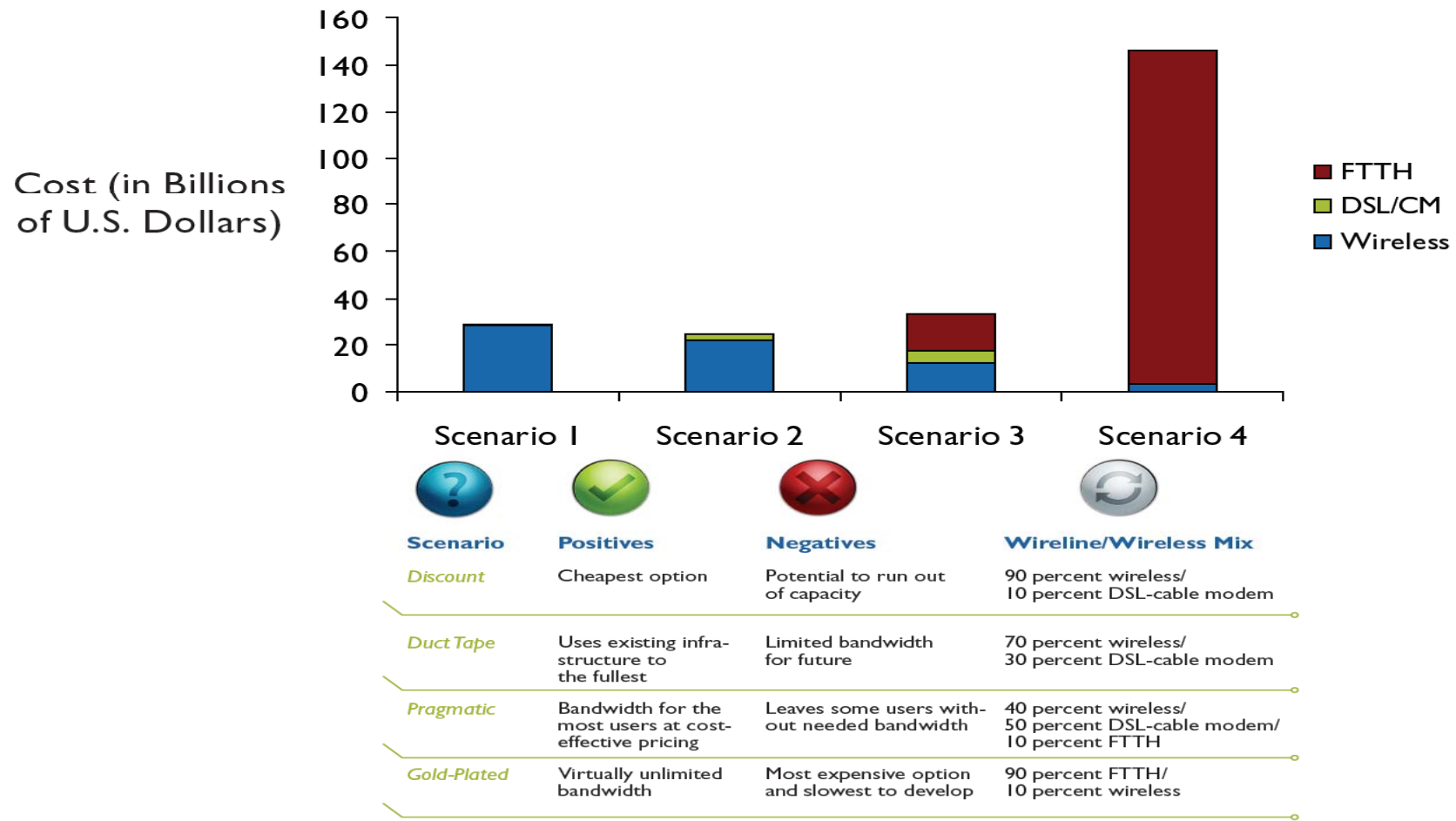
- **Focus on universal access to broadband**
- **Efficiency is vital to serving everyone**
- **Flexibility to respond to evolving telecommunications market**

# The Case for Universal Broadband



- **Voice is no longer a stand-alone service**
  - Voice is an application on data-driven telecommunications networks
- **Broadband is today's telephone service**
  - Like telephone service in the 20<sup>th</sup> Century, Broadband is necessity for the economic, social and political development of communities in the 21<sup>st</sup> Century
- **Broadband is the most critical infrastructure required for economic development**
  - Virtually no business can operate without broadband access to suppliers, customers, potential employees, and business-critical information

# Fiscal Responsibility: Efficient Deployment of Broadband Technology



Source: The Yankee Group

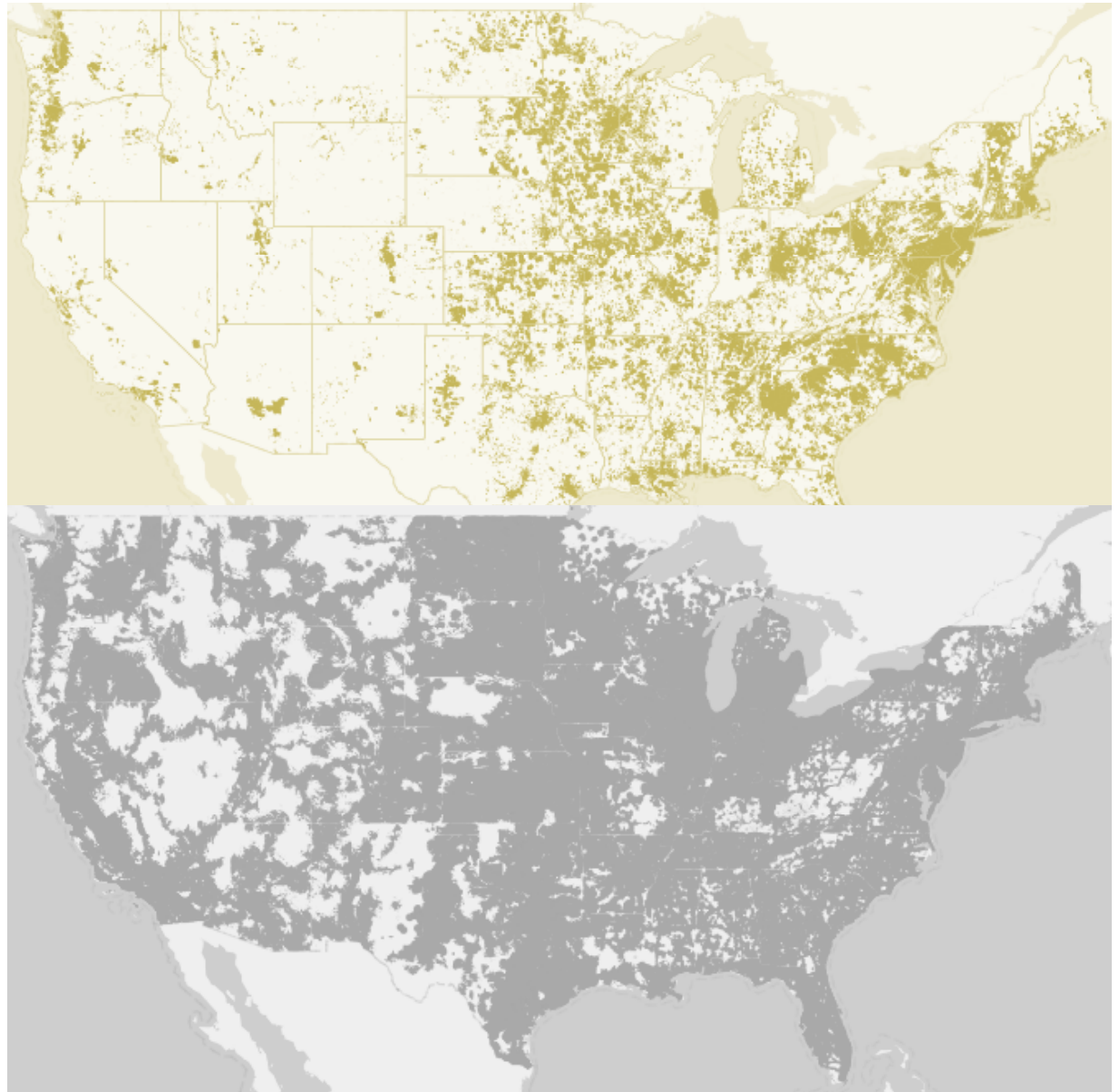


## **Starting point: Existing broadband- capable networks**

Wireline: focused on  
population centers,  
little plant beyond

Wireless: approaching  
ubiquity, upgradeable  
to broadband with less  
capital investment

*The National  
Broadband Map*



## Efficient and Effective Broadband: The “Donut”



- The “Hole” – Population centers with demand for higher bandwidth networks for hospitals, schools and other critical community facilities
  - Economic to build fiber-optic, DSL, coaxial broadband networks
- The “Bread” – Less populated areas outside the city limits with unmet demand for residential grade broadband
  - Cellular technology by far the most economic (\$300 per household vs. \$5000 per household for wireline technologies)
- The “Sprinkles”
  - Satellite where necessary due to terrain issues

# Flexibility



- **The Telecommunications Market Changes Rapidly**
  - Competition is driving innovation
  - Innovation is driving down costs
  - Lower costs enables more deployment
- **Fewer Decisions, Fewer Mistakes**
  - Picking winners and losers, even based on objective criteria is dangerous
  - Portability of support leaves investment decisions and investment risk in private sector, where it belongs

## Markets Forces at Work

### 1995-2008:

Migration of traffic  
from wireline to  
wireless

### 2005-2010

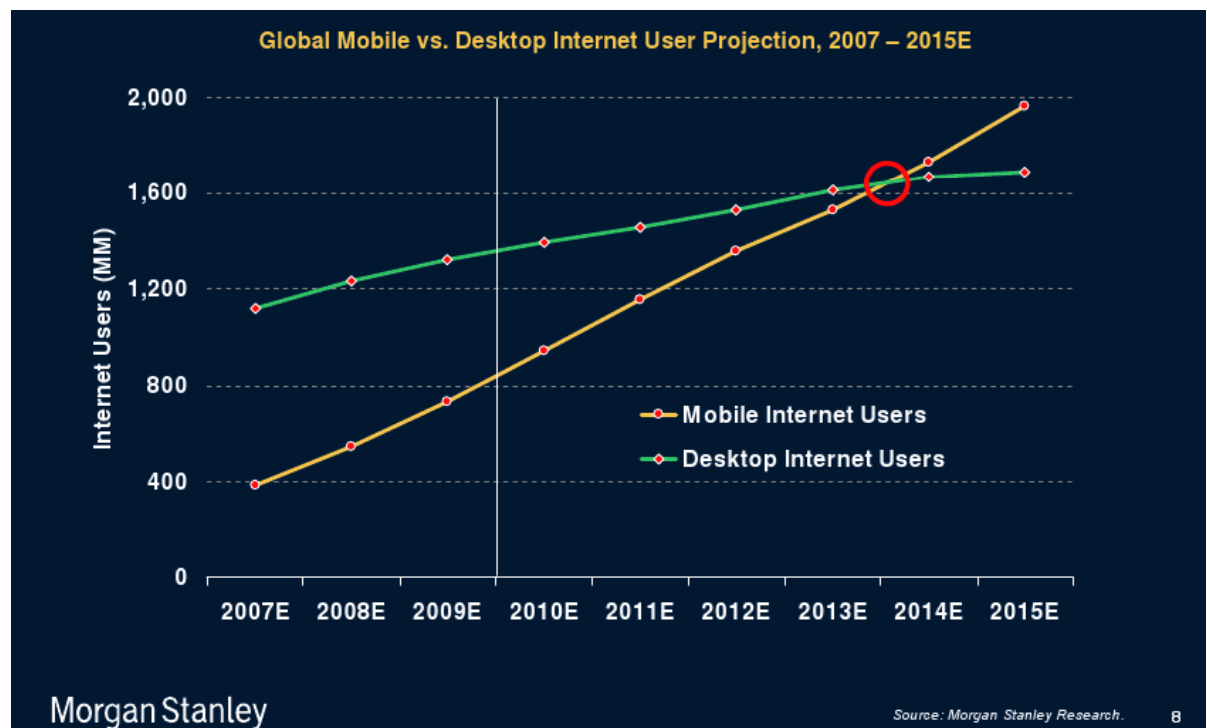
Migration of traffic  
from voice to data

### 2010-2015

Migration of  
broadband use from  
wireline to wireless

**Next?**

- Internet access will be primarily mobile by 2014





# The CAF and Mobility Fund NPRMs



- **Nebraska Stands to Lose Millions**
  - Phase-out of CETC support
  - Reverse auctions for mobile broadband, but areas and funds limited; most of Nebraska won't qualify
- **Reverse Auctions – Problems**
  - Creating a series of fair auctions will be difficult
    - ✦ Ideally suited to establishing least cost provider of simple goods with clear specifications
    - ✦ Broadband is a service, raising complex coverage, availability and customer service issues
  - Potential for anti-competitive bidding process
    - ✦ Under-bid, underperform
    - ✦ Force competitors from adjacent, profitable markets
    - ✦ Government-guaranteed bidders (rate of return)
    - ✦ Irrational bidding – no risk capital or existing business

# Solutions



- **If Reverse Auctions Are To Be Used, Key Changes:**
  - Establish “floor”, at which all competitors are eligible to receive support only if they win the customer
  - Use support “zones” similar to old U S West zone charge concept and Kansas USF program
  - Support should be re-auctioned or revisited frequently
- **All Areas Needing Broadband Should Be Eligible**
  - If 4 Mbps downstream is the appropriate requirement, all areas currently lacking 4 Mbps should be eligible for support
  - As currently proposed, existing 768k mobile data networks would render most of Nebraska ineligible for CAF and Mobility Fund dollars